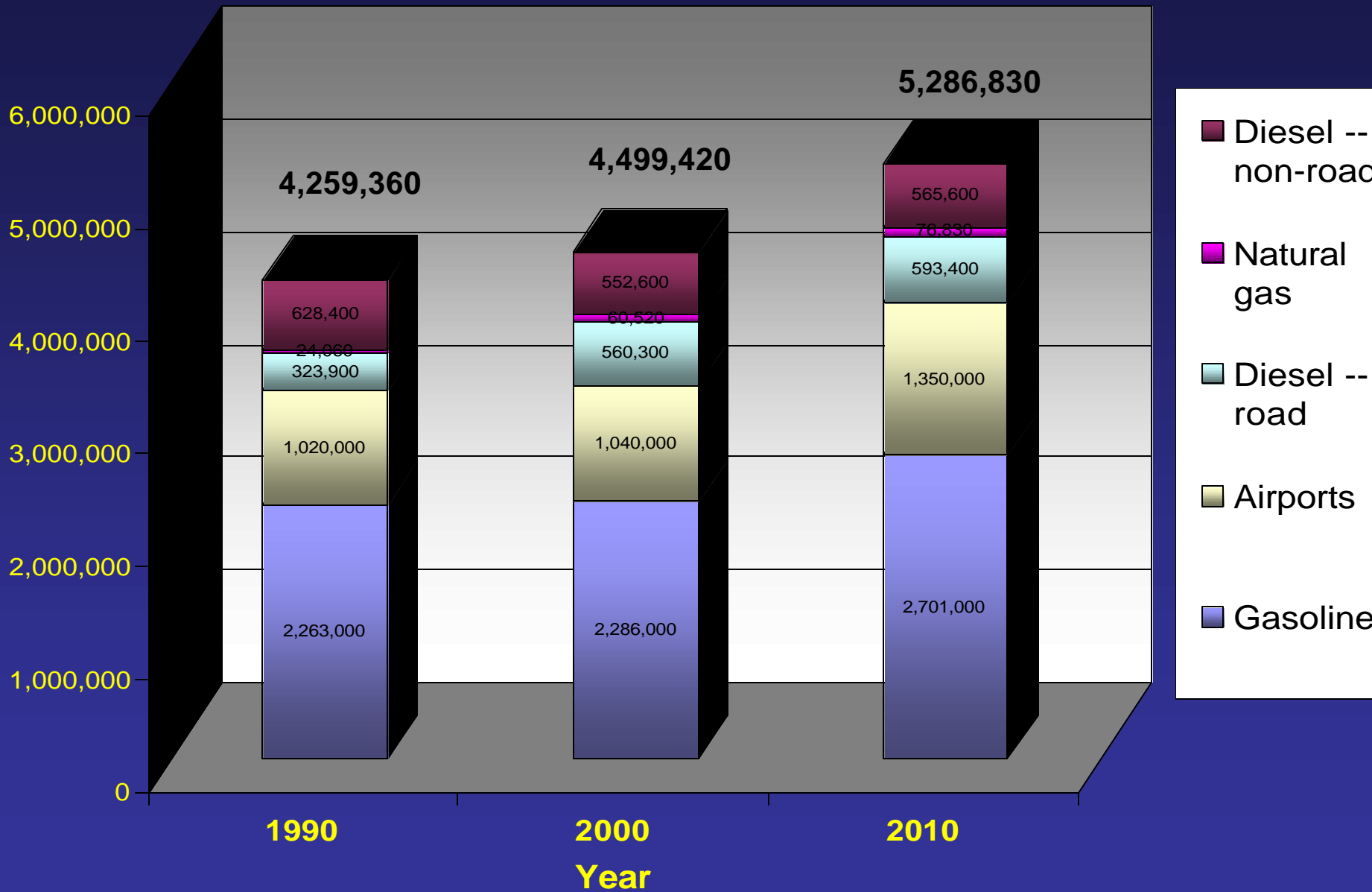

Transportation Working Group:

Briefing to the Green Ribbon Commission

September 22, 2005

Transportation Emissions in Seattle

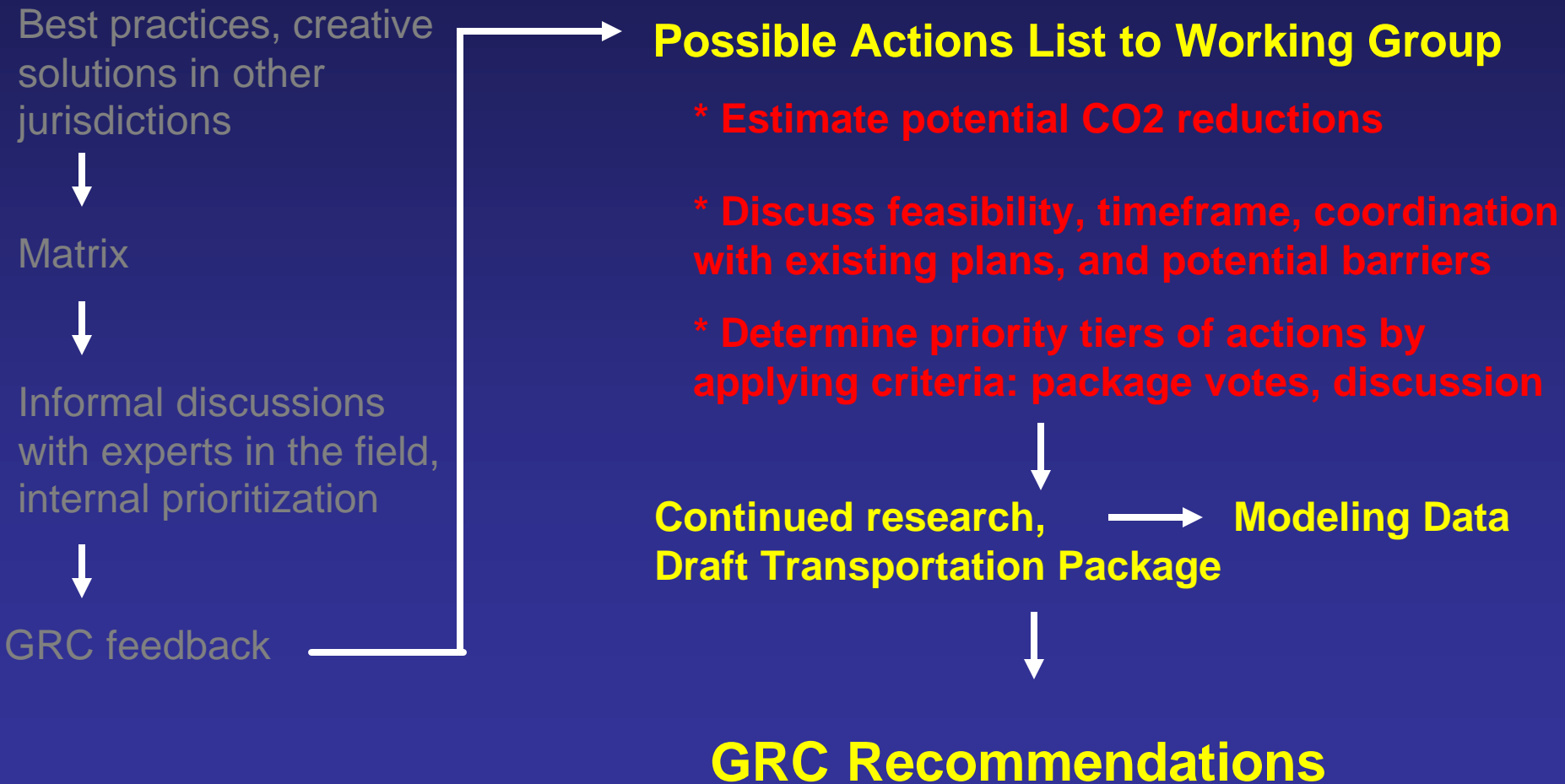
metric tonnes CO2 equivalent



Working Group Members

- King County Metro
- Puget Sound Regional Council
- Puget Sound Clean Air Agency
- Port of Seattle
- Seattle Department of Planning and Development
- Seattle Department of Transportation
- University of British Columbia
- Bicycle Alliance of Washington
- Enterprise Foundation (& GRC Member)
- Feet First
- Transportation Choices Coalition

Working Group Process



Items with Lively Discussion

- **Timing of actions for maximum synergistic benefit**
- **Current work that needs acceleration/funding vs. new ideas**
- **Alternative fuel choices vs. specifics**
- **Competing local (transit) vs. regional (light rail) needs**
- **What to do with the monorail**
- **Parking**

Draft Transportation Package: 5 Strategies

Strategy 1: Increase transit ridership and mode split and make Seattle the most transit-friendly city in the country

Strategy 2: Make Seattle the most bicycle and pedestrian-friendly city in the country

Strategy 3: Discourage single-occupancy vehicle driving

Strategy 4: Promote clean cars and clean fuels

Strategy 5: Develop innovative partnerships

How'd We Get the 5 Strategies and Actions?

	<i>Criteria</i>		
<i>High Priority Actions</i>	<i>CO2 reduction potential</i>	<i>Feasibility</i>	<i>Catalytic potential</i>
1. Fully implement and accelerate the Seattle Transit Plan <i>Working group votes</i>	High – 5 Med – 1 Low – 0	High – 2 Med – 4 Low – 0	High- 4 Med- 2 Low – 0
2. Fully implement and accelerate smart growth strategies for center city and other urban centers	High – 4 Med – 2 Low – 0	High – 3 Med – 2 Low – 1	High – 4 Med – 2 Low – 0
3. Establish transit priority treatments downtown and better link higher-density areas with Bus Rapid Transit (BRT)	High – 3 Med – 3 Low – 0	High – 4 Med – 2 Low – 0	High – 2 Med – 4 Low - 0
4. Advocate for changes to Regional Transportation Investment District (RTID) to reduce the % of SOVs by funding a greater number/% of non-SOV projects like rail, HOV lanes, bicycling and pedestrian improvements, and transit.	High – 5 Med – 1 Low – 0	High – 3 Med - 3 Low – 0	High – 2 Med – 4 Low – 0

Strategies

Strategy 1: Increase transit ridership and mode split & make Seattle the most transit-friendly city in the country

Action: Accelerate and Fully Fund Seattle Transit Plan

Action: Accelerate and Fully Fund Seattle Transit Plan

- Integrates transit services like Bus Rapid Transit, the streetcar, and bus services
- Goal of 15 minute or better service frequency, 18 hours a day, 7 days a week by 2030

Opportunities:

- Work with Metro to implement a select number of Urban Village Transit Network corridors
- Meet system needs by increasing service by 2% a year and investing \$57 - \$73 million in service
- Consider accelerating plan implementation

GHG reduction potential: Significant— tens of thousands of tons CO₂. Modeling data forthcoming.

Strategies

Strategy 2: Make Seattle the most bicycle and pedestrian-friendly city in the county

Action: *Significantly expand bicycle and pedestrian infrastructure*

Action: *Significantly expand bicycle and pedestrian infrastructure*

Opportunities:

- Improve on-street bicycle network: stripe 25% of arterials
- Use innovative and alternative design treatments
- Prioritize pedestrian crossings at schools, transit, and in high density commercial areas and seek transit funds
- Create bicycle/pedestrian set-aside for transportation projects

GHG reduction potential:

- 1-5% CO₂ reduction per area of major improvements
- 1% increase in ridership for each mile of bike lane/mi²

Strategies

Strategy 3: Discourage single-occupancy vehicle driving

Action: *Implement road pricing program*

Action: *Implement road pricing program*

Road Pricing:

- Benefits: Source of revenue, increased travel speeds, increase transit ridership, decrease air pollutants, decrease infrastructure needs
- Success in Singapore, Melbourne, Trondheim, Toronto
- NJ considering statewide, Portland mileage tax pilot, PSRC

Opportunity:

- Charge for SOV entry to downtown Seattle during peak times
- Implement tolls on select bridges
- Consider regional pricing based on driving time and distance

GHG reduction potential: Up to 19% reduction in CO₂ emissions; 2-8% reductions per area.

Strategies

Strategy 4: Promote clean cars and clean fuels

Action: Promote alternative fuel taxis

Action: *Promote alternative fuel taxis*

Seattleites: 3 million taxi trips/year = 20 million miles

Success elsewhere:

- 40 hybrids (19%) in Vancouver, B.C.
- Approval in San Francisco, Boston, New York

Opportunity:

- Market Seattle as a global green city with hybrid taxi fleet
- Develop pilot to grant licenses to taxi-drivers who agree to purchase hybrids
- Consider long-term regionalization of taxi industry for other benefits

GHG reduction potential: Converting 100 taxis would prevent at least 10 million pounds (4,400 tons) of CO₂/year

Strategies

Strategy 5: Develop innovative partnerships

Action: Develop and pilot pay-as-you-drive (PAYD) insurance

Action: Develop and pilot pay-as-you-drive (PAYD) insurance

- Prorates premiums by annual mileage (w/ rating factors)
- \$1000/year policy = 8 cents/mile
- Crash reductions, actuarial accuracy, lower premiums

Success elsewhere: Israel, the Netherlands, South Africa. Pilots in TX, MN. 2003 OR tax credit bill to insurers.

Opportunities:

- Work with local insurance company to pilot PAYD as business opportunity
- Collaborate with West Coast Governors

GHG reduction potential: Average annual travel reduction by 10%. Assuming 15% market penetration, CO2 reductions would be in the tens of thousands of tons.

Draft Transportation Package

Strategy 1: Increase transit ridership and mode split and make Seattle the most transit-friendly city in the county

Strategy 2: Make Seattle the most bicycle and pedestrian-friendly city in the county

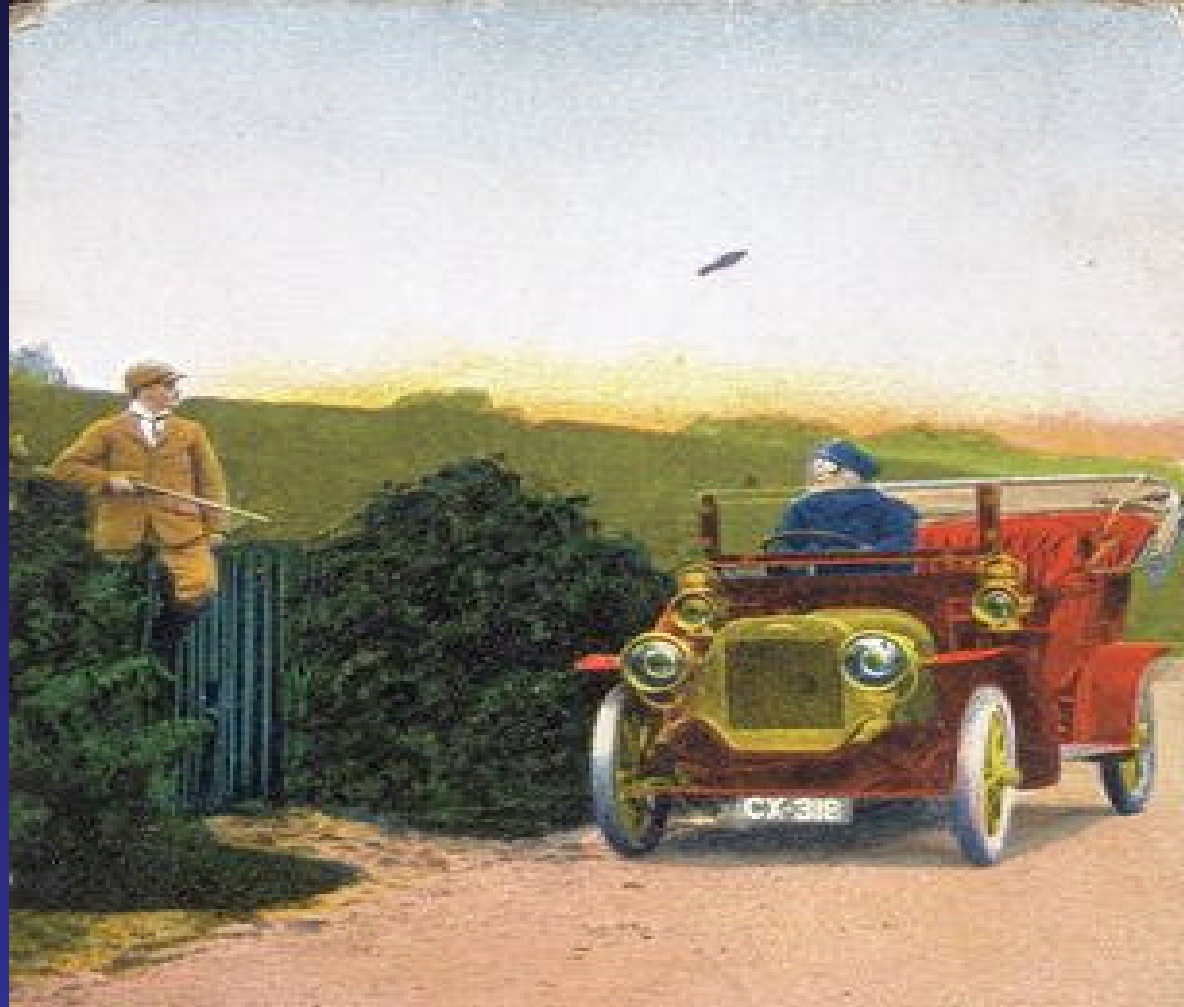
Strategy 3: Discourage single-occupancy vehicle driving

Strategy 4: Promote clean cars and clean fuels

Strategy 5: Develop innovative partnerships

Other Critical Actions

- **Remove taxi deadheading**
- **Advocate for changes to RTID**
- **Promote Plug in Hybrid Electric Vehicles (PHEVs)**
- **Develop fuel conservation program**
- **Implement aggressive parking changes**
- **Support North Link Light Rail**



B. to Sept 4th/08.

I have just sent me of
these 5 G-je - ^{all - or.} ~~Nothing~~ ^{just!}

Motorist - "Hello, killed anything?"
Sportsman - "No, have you?"